Dr. Dodul Mondal
ONCOLOGIST

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22+ Experience in Patient Care

Director and Clinical Administrator, Radiation Oncology at Max Institute of Cancer Care, Max Super Speciality Hospital, Saket, Delhi. Fellow, Proton Beam Therapy and Precision Radiation Oncology Cancer Institute of New Jersey, USA

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Understanding Proton Therapy

What is Proton Therapy?

- An advanced form of radiation therapy
- Uses protons instead of conventional X-rays
- Designed to deliver radiation more precisely to the tumor
- Helps reduce unnecessary radiation exposure to nearby healthy tissues

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How Does Proton Therapy Work?

- Protons are accelerated to high energy using specialized equipment
- The proton beam is directed toward the tumor
- Protons release most of their energy at a specific depth
- This is known as the Bragg Peak
- Radiation dose can be carefully planned around the tumor

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What Cancers Can Proton Therapy Treat?

- Brain and spinal cord tumors
- Head and neck cancers
- Pediatric cancers
- Lung cancer
- Prostate cancer
- Certain breast cancers
- Tumors located close to critical organs
- Treatment suitability depends on the tumor type, location, and individual case

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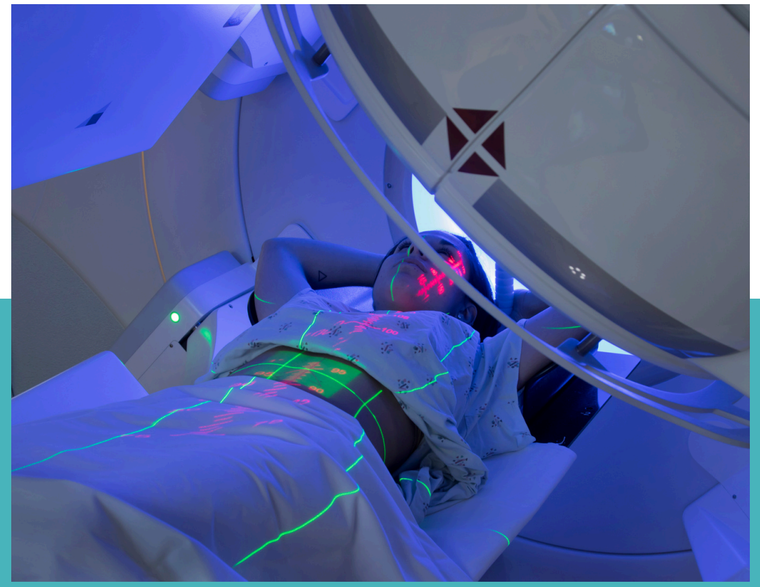
Major Benefits of Proton Therapy

- Highly precise radiation delivery
- Can reduce radiation exposure to healthy tissues
- May help limit certain treatment-related side effects
- Particularly valuable for tumors near sensitive organs
- Important option for some children and young patients
- Can support treatment planning that balances tumor control and normal-tissue protection



Proton Therapy

- Uses proton beams
- Can precisely control dose distribution
- May reduce dose beyond the tumor
- Useful for selected complex tumors
- Advanced treatment technology

Conventional Radiation

- Uses X-ray/photon beams
- Radiation passes through the body
- Some radiation may reach tissues beyond the tumor
- Widely used for many cancers

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Is Proton Therapy Right for You?

- Not every cancer requires proton therapy
- Doctors evaluate tumor size, location, and stage
- The proximity of critical organs is an important consideration
- Previous treatments may also influence eligibility
- A personalized radiation plan is created after detailed evaluation
- Discuss potential benefits, limitations, costs, and alternatives with your cancer care team

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THANK YOU

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